

In the Claims:

Please amend claims 1-6 to read as follows:

a9 sub B2 / 1. (Amended) An inflatable heating device comprising:
a generally cylindrical body having an inner surface and an outer surface, said body including a flexible matrix and a plurality of nonmetallic, electrically conductive fibers embedded within said flexible matrix, said flexible matrix being cured to a stable elastomeric state by electrical resistive heating of said fibers, said body being capable of expanding and returning to an original form.

2. (Amended) The inflatable heating device of claim 1 wherein said flexible matrix comprises one or more materials selected from the group consisting of fluorosilicone and fluorocarbon.

sub B2 / 3. (Amended) The inflatable heating device of claim 1 wherein said fibers comprise one or more materials selected from the group consisting of carbon, nylon, and polyester.

4. (Amended) The inflatable heating device of claim 1 wherein said fibers are arranged helically and positioned at an angle of $\pm 45^\circ$ with respect to the longitudinal axis of said body.

5. (Amended) The inflatable heating device of claim 4 wherein said fibers are arranged in one of tows and bundles to provide approximately 50-90% coverage of said body.

6. (Amended) The inflatable heating device of claim 1 wherein said fibers comprise a non-woven tape.

Please add new claim 21 as follows:

a10 sub B3 / 21. (New) An inflatable heating device comprising:
a generally cylindrical body having an inner surface and an outer surface, said body comprising a thermoset resin matrix and a plurality of carbon fibers embedded within said matrix, said carbon fibers being arranged helically and positioned at an angle of $\pm 45^\circ$ with respect to the longitudinal axis of said body, said matrix being cured to a stable elastomeric state by electrical resistive heating of said carbon fibers, said body being capable of expanding and returning to an original form.